

Rehabilitation of Corrugated Metal Pipe Spillways

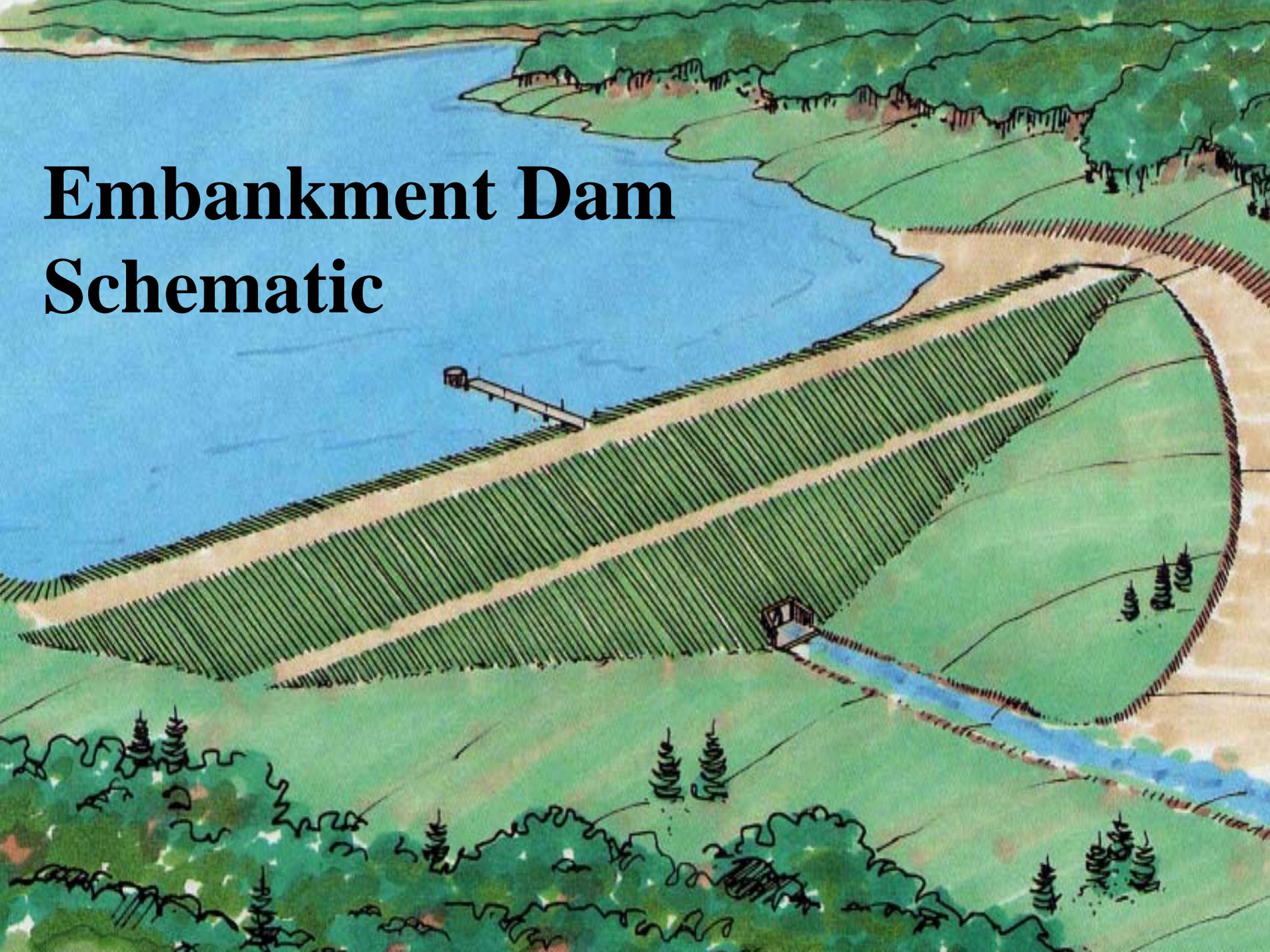
by

Hal Van Aller

Maryland Dam Safety



Embankment Dam Schematic





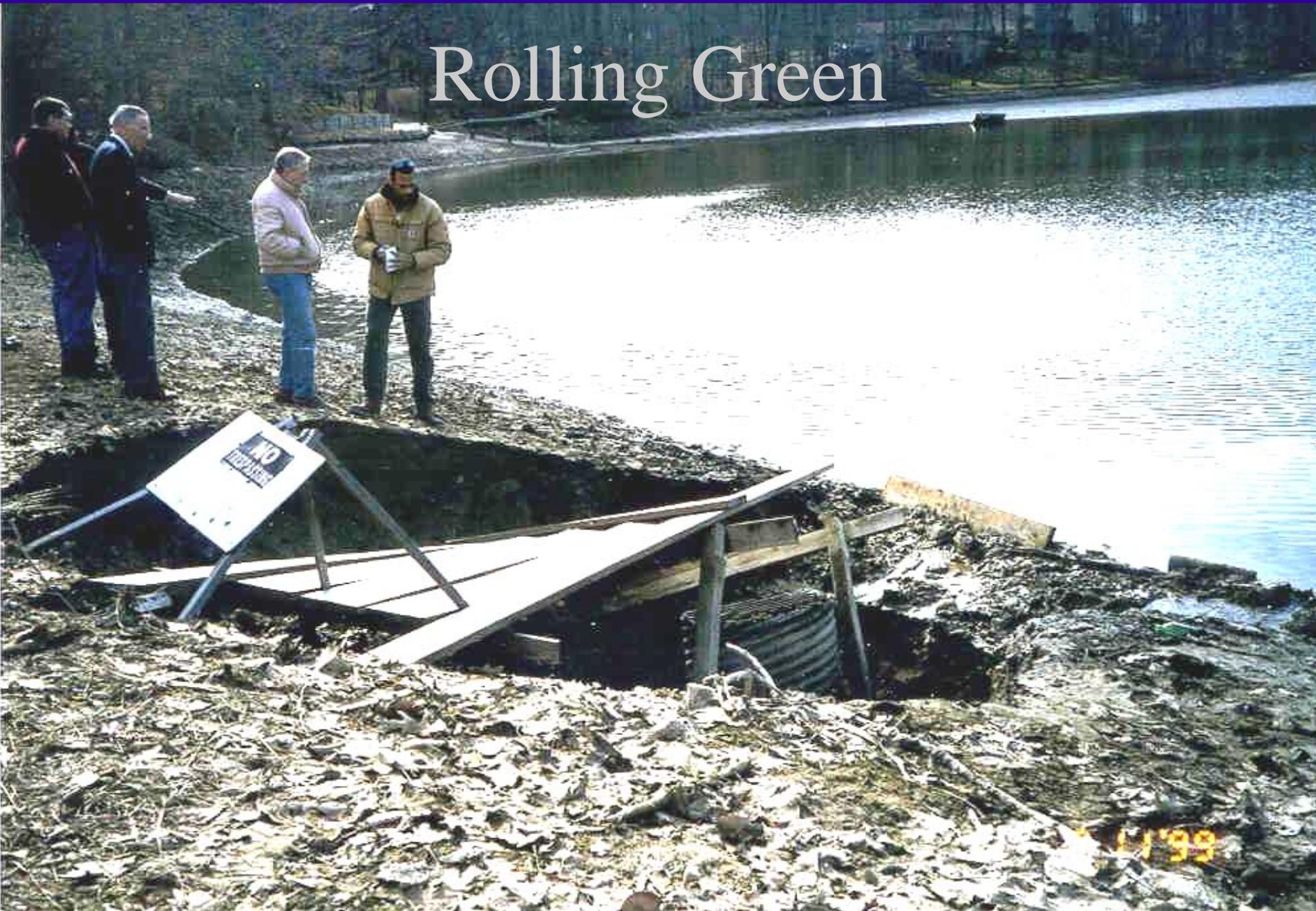
Loveton Dam Failure (1989)



Cove Point



Rolling Green



Options

- Remove and replace pipe
- Slipline pipe
- Permanently drain the lake and breach the dam (provide other SWM)

Priestford Hills pipe



Excavate and Replace

- Required at Priestford Hills as pipe was in very poor condition
 - Lake must be drained
 - Work takes months
 - Relatively expensive
 - Why dig up dam fill that is otherwise in good condition?



Sliplining

- Used at Campus Hills, Rolling Green, Lakeridge, Cove Point, Highland Lake, others
- Lake does not need to be drained completely if riser is in good shape
- Work takes a couple of weeks









722

722

HOWE
CONCRETE









Need filter at downstream

